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4550. (Amended) The method of claim 4534, wherein a temperature of the one or more heat sources is maintained at a temperature of less than approximately 700 °C to produce a synthesis gas having a ratio of H<sub>2</sub> to carbon monoxide of greater than about 2.

4551. (Amended) The method of claim 4534, wherein a temperature of the one or more heat sources is maintained at a temperature of greater than approximately 700 °C to produce a synthesis gas having a ratio of H<sub>2</sub> to carbon monoxide of less than about 2.

4552. (Amended) The method of claim 4534, wherein a temperature of the one or more heat sources is maintained at a temperature of approximately 700 °C to produce a synthesis gas having a ratio of H<sub>2</sub> to carbon monoxide of approximately 2.

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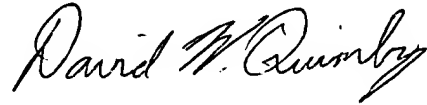
4554. (Amended) The method of claim 4534, wherein a heat source of the one or more heat sources comprises a natural distributed heater.

4555. (Amended) The method of claim 4534, wherein a heat source of the one or more heat sources comprises a flameless distributed combustor (FDC) heater, and wherein fluids are produced from a wellbore of the FDC heater through a conduit positioned within the wellbore.

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Applicant believes no fees are due in association with the filing of this document.  
If any fees are required, please appropriately charge those fees to Conley, Rose & Tayon,  
P.C. Deposit Account Number 50-1505/5659-09200/EBM.

Respectfully submitted,



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